

Historic, Archive Document

Do not assume content reflects current scientific knowledge, policies, or practices.



423 Jordan Hall, Stanford University, Calif., June 1, 1928

A REVIEW OF THE PAST

Western Forest Insect News was started March 1923 by the western members of the Division of Forest Insect Investigations. The title was "News Letter--Western Division" until March 1926, when it was changed to the present "Western Forest Insect News". The issuing has been more or less irregular, but most of the winter months of the past five years have produced a number.

The original idea was not to produce anything of permanent value, but to keep the various men scattered throughout the Rocky Mountain and Pacific states informed of the latest developments in forest entomology. As time goes on, however, we find that more and more we turn to the mimeographed pages of the "News" to refresh our memories on some faintly-remembered statement or long-forgotten record.

To make this desired search through the past issues as painless as possible, we give on the following pages a list of all the titles, with the author's name where possible.

INDEX OF WESTERN FOREST INSECT NEWS

1923

March 1923

What Shall We Do About Publicity? - - - - - Evenden

June

The Ideal Personnel for a Forest Insect Station- - - - - Burke

Color Filters for Use With Panchromatic Plates- - - - - Rust

August

What Can Be Gained by Photographic Work at Field Sta-
tions?- - - - - Patterson

Tests of the Submergence Method - - - - - Miller

September

The Situation on the Kaibab- - - - - Miller and Edmonston

October

Logging Bug-Killed Yellow Pine (Dixie-Sevier N.F.)- - - Edmonston

November

Submerging White Pine Logs to Destroy Wood-Boring

Larvae- - - - - Evenden and Rust

1924

February

Should Insect Infestations in the National Parks Be

Controlled?- - - - - Burke

Pine Beetles Buried Alive Survive- - - - - Miller

Rearing Infant Clerids (in vials) - - - - - Person

Salvage in Beetle Control (Antelope Project) - - - - - Patterson

Infested Yellow Pine on the Lincoln - - - - - Miller

An Answer to Dr. Burke: Let the Battle Rage- - - - - Edmonston

Where Angels Fear to Tread (further discussion of Dr.

Burke's article) - - - - - Sweeley

The Other Side to the Story (buried pine beetles

Succumb - - - - - Patterson

Historical Insects (Germany, 1783)- - - - - Evenden

Mountain Pine Beetle Threatens Forest Service Exper-

imental Area (Hunter's Gulch, Magpie, Bernice)- - - - -

High Lights on Maintenance Control- - - - - Miller

April

Nature's Feathered Foresters- - - - - Patterson

Larvae that Live in Petroleum- - - - -

The Equitable Distribution of Control Costs - - - - - Keen

Beetle Loss vs. Increment- - - - - Person

Should Insect Infestations in the National Parks be

Controlled?- - - - - Miller

New Industry for Angeles Forest (butterfly ranch)- - - - D.5 N.L.

1924

May

Dendroctonus Beetles--Why? - - - - - Evenden
A Third Method of Assessing Control Costs - - - - - Burke
Weather, Tree Growth, Insects- - - - - Burke
How Many Beetles? (statistics per sq.ft. of bark)- - - Patterson
Why Do Beetles Attack Certain Trees in Preference to
Others? - - - - - Person
A Case Against Windfalls (Yawkey Tract) - - - - - Hauge
Another Viewpoint on National Park Infestations- - - - - Miller
White Caterpillar? (Palo Alto Station will make identi-
fications if material is sent in)- - - - - Burke
Songs of the Bug Camps - - - - -
It's Up to Western Forest Schools (to have professors
of entomology) - - - - - Burke
Insect Losses Mentioned (in R.S.Kellogg's book, "Pulp
Wood and Wood Pulp")- - - - - Jaenicke
Photographic Technique- - - - - Patterson

June

Remarks on Dr. Tragardh's Paper, "Problems and Methods
in Forest Entomology" - - - - - Craighead
Smelter-Killed Timber and Insects - - - - - Evenden
Piece-Work System Applied to Pine-Beetle Control - - - - - Keen
Infestations in District 6- - - - - Jaenicke
Why Do Beetles Migrate?- - - - - Patterson
Paradichlorobenzene Fails as a Sawfly Control - - - - - Burke
Charles Darwin Contributes on Grazing- - - - - Edmonston
Sometimes Our Recommendations Do Some Good (fish-oil soap
saves Southern Sierra apple orchard from flathead borers) -Burke

July

An Entomological Factor in Forest Management- - - - - Person
Why Do Beetles Attack Certain Trees? - - - - - Patterson
Call for Dr. Burke (lime sulphur spray recommended for
pines dying at Inspiration Point, Susanville, from
attacks of scale insects)- - - - - Keen
Piled Slash Not a Menace to Living Trees from the
Insect Standpoint - - - - - Burke
The Way It Was Done in the Good Old Days (artificial
attacks encouraged to clear land)- - - - - Buckhorn
Serious European Shadetree Pest Introduced into California

December

A New Method of Attracting the Western Pine Beetle
(removal of soil around yellow pine)- - - - - Hauge
Periodicity of Western Pine Beetle Epidemics on the
Rogue River Area - - - - - Patterson
Brood Mortality of Dendroctonus Beetles- - - - - Patterson
Relation of Growth Conditions and Vitality of Tree
to Primary Attack by Barkbeetles - - - - - Patterson
Coloradia Pandora- - - - - Patterson

December, concluded

1925

Effect of Climatic Conditions on Epidemics of D.brevicomis
in Yellow Pine- - - - -Hauge
Top-Killing on the Sierra--Drought or Insects?- - - - -Person
The Chilkoot Road Slash Study- - - - - Person
Palo Alto Station; Permanent Headquarters Established - - - Burke
Forest Insect Control in the West; first experiment took
place September 1905 on the Santa Barbara Nat. Forest - - -

Investigations- - - - -Miller
Selective Logging by Western Pine Beetle - - - - - Person
National Park Service Gets Into the Game- - - - -Miller
Japanese Tree's Too Much for American Beetles - - - - -Burke
Canadian Forester Visits Palo Alto Station- - - - -Keen
Reports Indicate General Increase in Barkbeetle Injury - - -
Girdling to Get Grubs - - - - -Burke
Manzano Insect Infestation Is Dendroctonus barberi - - - -Burke
British Columbia Forest Insect Problem Reviewed by Hopping- Hauge
News of Oldtimers- - - - -Burke
Some Doings of the Mountain Pine Beetle in Montana- - - - -Rust

A Panacea, or Forest Protection? - - - - - Evenden
Can More Practical and Effective Methods of Treating
Barkbeetle-Infested Trees Be Devised? - - - - - Graighhead
Can Rustic Work be Protected from Borer Attack? - - - - - Burke
An Entomological Bombshell (problems in cutting practice) Woodbury
Where There's Growth There's Hope (answer to foregoing) - - Person
Scales As Destructive As Forest Insects - - - - - Burke
Destructive Forest Insects Name American Cities - - - - - Burke
Spruce Budworm in Oregon - - - - - Jaenicke
The Douglas Fir Barkbeetle - - - - - Jaenicke

Progress in Barkbeetle Control Studies- - - - -Keen
Pickling Prepares Trees for Barkbeetles- - - - -Burke
Yellow Pine of Idaho and Montana Frost-Killed - - - - - Evenden
Barkbeetle Epidemics Do Not Always Develop Around
Burned Areas- - - - -Patterson
Does Cold Kill Barkbeetles? - - - - -Burke
Burns and Beetles- - - - -Miller
More About Rustic Work and Borer Attack - - - - -Burke
Tie Cutting May Have Caused Barkbeetle Outbreak- - - - -Miller

May

June

October

December

-5-

1926 - February

Why Pick on the Ranger? - - - - - Keen
Studies of the Southern Pine Beetle During the Season
of 1925 - - - - - Craighead
and St. George
Insect-Killed Timber Lowers Lumber Prices - - - - - Burje
Wanted: An Automatic Increment Core-Measuring Device - - - Evenden
and Person
The Hemlock Looper in Northern Wisconsin- - - - - Chamberlin
Relationship between Diameter Class of Lodgepole
Pine and Attacks by D. monticolae - - - - - Gibson
Another County Heard From (San Diego has insect problems) - - Keen
Increased Interest in Forest Entomology at O A.C.- - - Chamberlin
Western Pine Beetle Survey of Washington and Oregon - - - Jaenicke
Gallery Construction of D. monticolae in Lodgepole Pine - Evenden
An Experiment in Artificial Infestation (placing beetles
on living trees induces attractive pitch flow) - - - - Craighead
Spraying of Lodgepole- - - - - Jaenicke
Egg-Laying Habits of Mountain Pine Beetle - - - - - Evenden
More on the Black Hills Beetle Girdling- - - - - Burke
Progress of Brevicomis Infestations in Southern Oregon- - Jaenicke
Fire Protection Loses to Forest Protection - - - - - Evenden
Bark Analysis Records from Northern Idaho - - - - - Rust
U.S. Treasury Runs Dry! (private concerns considering
taking over beetle control) - - - - -

March

Beetles Hit 'Em When They're Down - - - - - Keen
Defoliation by Pine Moth Causes Barkbeetle Epidemic- - - Patterson
Spittle Insect Injury - - - - - MacAloney
and Craighead
Pandora Epidemic Declining in Southern Oregon- - - - - Patterson
Measuring Increment Borings - - - - - Guild
Flathead Borer Killing Young Cypress in Southern Calif.- - - Burke
Sugar Pine Control Work Shows Handsome Profit- - - - - Miller
Who Our Readers Are- - - - - Burke
Color as an Indication of Infestation in Yellow Pine
Forests- - - - - Edmonston
Forest Insect Control by Contract- - - - - Patterson
The Pales Weevil- - - - - MacAloney

April

The Forest Entomological Situation in the Lake States- - - Graham
Appropriation Provides for Big Hole Basin Control Project Evenden
\$62,000 Lost to U.S. Treasury! (Uranus Creek Bug-Killed
Timber- - - - - Miller
Some Barkbeetles Do Swarm - - - - - Evenden
Insect Losses on Cutover Areas - - - - - Person
Devil's Tower Monument Project- - - - - Evenden
Control Measures to be Instituted Against Dendroctonus
Devastation in White Pine - - - - - Evenden
Another Alaskan Defoliation - - - - - Jaenicke
Forest Insect Exhibit at San Bernardino- - - - - Miller
Why Did the Kaibab Infestation Stop?- - - - - Morse

1926

August, concluded

"Bee No. 599" (life history of a bee; Prof. Karl von
Frisch in June Atlantic Monthly) - - - - - Keen
Oregon Engraver Beetle Killing Healthy Lodgepole - - - - - Burke
Riggs Passes On - - - - - Burke

October

Forecasting Insect Epidemics - - - - - Miller
The Relation of Fire and One Insect (Melanophila
atropurpurea) - - - - - Burke
Why Do Fires Increase Beetle Losses? - - - - - Keen
High Beetle Mortality on the Kaibab - - - - - Blackman
Fine Weather a Great Benefit to Barkbeetles - - - - - Keen
Barkbeetles Almost Human (balsam fir beetles--Dryocoetes
confusus--found in bark of lodgepole pine log) - - - - - Burke
Pandora Infestation Has Disappeared (fm. Klamath Ind. Res.) Patterson
Chrysobothris texana as a Shade-Tree Pest (in juniper) - - Burke
Yellow Pine Lumber Damaged by Roundheaded Borers - - - - - Miller
Modoc Beetle Survey - - - - - Keen
Jeffrey Pine Beetle Developing on Inyo Windfall - - - - - Miller
Buprestid Swarming (Melanophila consputa at Coalinga
oil fire) - - - - - E.C. Van Dyke in Pan-Pacific Entomologist

November

What is an Epidemic of Barkbeetles? - - - - - Blackman
Slash Disposal in Yellow Pine - - - - - Jaenicke
Heavy Attack - No Pitch Tubes (mountain pine beetle in
lodgepole and yellow pine) - - - - - Evenden
Mild Winter--More Bugs (D. monticolae in lodgepole on
Bitterroot River) - - - - - Gibson
Does D. monticolae Prefer Porcupine-Girdled Trees? - - - Patterson
Notes from Oregon (Arbutus menziesii badly infested by
Coptodisca arbutiella and Quercus garryana by undescribed
species of Gracilaria) - - - - - Chamberlin
Klamath Control a Success - - - - - Patterson
White Ants Allies of Satan (Illinois Church forced to
close owing to damage by termites) - - - - - Lit. Digest
Cypress Barkbeetle in San Joaquin Valley - - - - - Miller
Will Our Field and Office Work Balance? - - - - - Evenden
Pe-Aggie Trenches - - - - - Miller
The Brevicomis Situation in Oregon and Washington - - - Jaenicke
New Timber-Destroying Insect (unidentified insect at
Halleck, Nev.) - - - - - The Timberman
Cable Beetle at Work Again - - - - - Burke

1926

December

Why Not a Formula for Insect Infestations? - - - - - Evenden
1925 and 1926 Beetle Losses in Southern Oregon- - - - - Jaenicke
Repelling Attacks of Barkbeetles Possible- - - - - Patterson
Kanab Station Closed- - - - - Burke
An Insect Robber (Cerambycid predators on Dendroctonus
with experiments on the Cascadel area and results)- - - - Person
Field Work in Oregon and Washington (leaves too little
time for office work)- - - - - Jaenicke
A Monticolae Note (found infesting yellow, lodgepole,
western white and white-barked pine on Rainier N.F.)- - Jaenicke
Insects Apt to be Exported in Pacific Coast Timber- - - - - Burke
Barkbeetle Infestation on Aspen Lake Burn- - - - - Miller
Insects and Disease Too Much for the Trees- - - - - Evenden
The Right Dope on the Pe-aggies (Ranger Way) - - - - - Miller
Black Hills Beetle Epidemic in Colorado - - - - - Miller
Control Operations in Lodgepole- - - - - Jaenicke
Gibson to Continue Graduate Work- - - - - Evenden

1927

February

What a Barkbeetle Epidemic Is- - - - - Middleton
Yellow Pine Growth on Poor Sites- - - - - Jaenicke
Spruce Budworm in Wyoming- - - - - Evenden
Conference on the White Pine Weevil - - - - - MacAloney
Cooperative Research - - - - - Evenden
Attraction of Top-Killed Trees- - - - - Person
Real Epidemic in Colorado Nat. Park (Black Hills beetle) - Burke
Barkbeetles and Lightning in Northern Arizona (Inter-
mountain District Daily News, Dec. 15, 1926) - - - - - Jaenicke
Control Work on the Southern Oregon-Northern California
Pine Beetle Control Project - - - - - Jaenicke
Yellowstone Insects Like California Climate - - - - - Burke
Entomology to be Made a Required Subject at O.A.C. - - - - - Keen
The Solar Heat Method of Barkbeetle Control; Its History
and Use- - - - - Patterson
Another Viewpoint on Fires and Insects - - - - - Miller

March

Another Black Hills Beetle Epidemic - - - - - Person
Is Direct Control Too Expensive?-J.R.Eakin,Supt.Grand Canyon N.P.
Pine Scale Defoliation Prevalent - - - - - Miller
Relation Between Growth and Beetle-Loss Volumes - - - - - Jaenicke
Reviewing the Reviewer (H.R.Flint in Jan.Journal of For-
estry on Essig's "Insects of Western North America") - - - Keen
The Most Ancient Modern Beetle (Trachykele opulenta) - - - Burke
Beetle Losses in Yellow Pine in Oregon- - - - - Jaenicke
Western Pine Beetle Near Mount Hamilton- - - - - Miller
The Kaibab Bug Epidemic is Over -E.E.Carter in The Forest Worker
A Special Photographic Developer- - - - - Patterson
Control of Barkbeetles in the Kaibab Forest (talk before
Los Gatos Kiwanis)- - - - - Keen
\$20,000 in 1927-29 budget for cooperation between state
and federal governments in forest research work (talk
for Society of American Foresters) - - - - - Pratt
Giving the Beetles the Air - - - - - Bushey

1927
April

Effect of Woodpeckers on One *D.brevicomis* Infestation - - Person
Pete Creek Project to be Reworked- - - - - Evenden
Million-Dollar Bug Loss in One Year (S.O.-N.C.Project)- - - Keen
A New Lead-Cable Borer (*Micrasia hirtellus*)- - - - - Burke
Low Temperatures Fatal to Western Pine Beetle - - - - - Miller
Re-Reviews (reply to Keen's article in March News) - - - - Flint
Apologia (response to "Re-Reviews") - - - - - Keen
Hibernation of the Alder Flea Beetle - - - - - Miller
Origin of Insects of Planted Monterey Pine- - - - - Burke
Beaverhead-Bitterroot Project Organization - - - - - Evenden
Winter-Killed Trees Recover (yellow pine) - - - - - Evenden

May

Effect of Highway Slash on Western Pine Beetle Infes-
tation- - - - - "Public Roads", February 1927
Western Pine Beetle Experiments Under Way on the Sierra- -Person
An Undesirable Immigrant (*Xylothrips flavipes* Ill.) - - - Burke
Big Hole Basin Control Project Held Up By Snow - - - - Evenden
Color Changes of Yellow Pine Foliage Infested by the
Western Pine Beetle- - - - - Patterson
Maintenance Control Proves Successful in Idaho White Pine-Miller
Bombing the Bugs (airplane dusting) - - - - - Burke
Ambrosia Beetles Damage Cedar Poles- - - - - Evenden
Control Conference at Klamath Agency- - - - -
The Measuring Worm (*Nepytia nigrovenaria* Pack.); An
Enemy of the Monterey Pine- - - - - Burke
Solar Heat Again- - - - - Burke
Another Dry Season Followed by Ips Outbreaks - - - - - Miller
Ages of Insect-Infested Trees - - - - - Burke

June

Selection of the Fittest (trees most susceptible to
western pine beetle attack) - - - - - Person
Cats Used in War on Beetles (caterpillar tractor bucking
snow on Sand Creek Control Project)- - - - - Patterson
Ips Infestation in the Prescott National Forest- - - Edmonston
Serious Scale Infestations Reported to O.A.C. (*Chion-
aspis pinifoliae*) - - - - - Chamberlin
One of the Oldest Barkbeetles (*Hylastes macer*)- - - - - Miller

October

Selective Thinning Study Started on the Modoc- - - - -
Dendroctonus monticolae Attack Successfully Repelled- -Patterson
Forest Entomology at Oregon Agricultural College - - -Chamberlin
Jeffrey Pine Beetle Epidemic Subsides on Inyo Wind-
fall Areas- - - - - Miller
Will They Attack Concrete Next? (*Crioccephalus* sp.)- - - -
Fall Control Work Against Black Hills Beetle on
Colorado Nat. Forest- - - - - Nelson
Western Elder Beetle Working East - - - - -
Engelmann Spruce Weevil in Glacier Park- - - - -
Douglas Fir Browned by Aphids - - - - -

1927

October, concluded

Pine Sawyer Does Not Keep Union Hours - - - - -
Termite Problem Brings Dr. Snyder West - - - - -
Forest Entomologist Flies for Forest Service- - - - -
Pine Barkbeetle Losses High in 1927- - - - -

November

The Defense-Zone Plan of Barkbeetle Control - - - - -Evenden
Entomology Instruction at Ranger School- - - - -
Mountain Pine Beetle Loss Heavy in Central Idaho- - - - -Evenden
Beetles Lose Appetite for Scorched Trees - - - - -Keen
Lodgepole Pine-Mountain Pine Beetle Study - - - - -Evenden
A Record for Pitchtubes- - - - -Miller
Successful D.valens Brood Developed in Green Yellow Pine-Struble
D. barberi Epidemic on Prescott National Forest- - - - Edmonston
Why Not a Woodpecker Club?- - - - -

December

Shooting Bugs from the Air - - - - -Keen
1927 Control Work on Colorado N.F. Shows Good Results - - Nelson
Line Slash as an Aid to Insect Control - - - - -Person
Why Did It Vary? (mountain pine beetles in W.Montana) - - Gibson
Number of Forest Ent. Students Increases at Syracuse - -Blackman
An Egg Gallery Record - - - - -Evenden
Is Color a Definite Indication of Maturity?- - - - -Gibson
How Did the Cliffdwellers Control Barkbeetles?- - - - -Miller
Eastern Spruce Affected by White Pine Weevil - - - - -MacAloney
Another Angle of the Slash Problem- - - - -Miller
Planning for 1928 Control Work in District 1 - - - - -Evenden
The Prehistoric Days of Forest Entomology (Chap. 1)
Forest Entomologist Assigned to Calif. Exper. Station - -

1928

February

The Use of Permanent Sample Plots in Western Pine
Beetle Studies- - - - -Person
Fall Costs More Than Spring Control on Colorado N.F.- - - Nelson
Methods for Controlling Insect Beets - - - - -Science, 12/2/27
Hofer Retires - - - - -Burke
Big Hole Basin Project - - - - -Evenden
Winter Control Work on the Prescott - - - - -Miller
Why Did Mrs. Dendroctonus Leave Home?- - - - -Gibson
Kaibab Epidemic is Over - - - - -D.4 Insect Report
Will Dug-Out Adults Dig In?- - - - -Gibson
Prehistoric Forest Entomology (Chap. 2) - - - - -

March

Forest Entomology Still Entomology - - - - -Miller
The Mountain Pine Beetle in Western White Pine Forests- -Evenden
Modoc County Concerned Over Timber Losses- - - - -Keen
Are Dendroctonus Beetles Changing Their Habits? - - - -Patterson
Piñon Pine on San Bernardino NLF. Suffers Heavily from
Insect Attack - - - - -Keen
Spruce Budworm in District 1- - - - -Evenden

March, concluded

April

May

June (current issue)

-12-

CONTROL-MAINTENANCE WORK ON THE SAN BERNARDINO

In 1922 a survey was made by Miller and Hartman at the instance of the Lake Arrowhead Company to determine the cause of tree losses on their property. Upon recommendations made after this survey, insect control work was started by the Lake Arrowhead Company and carried on for a period of years to 1925; when after a very thorough examination by Miller and Person of the entire area embraced by Townships 2 North and 3 & 4 West, it was found that there was an increasing infestation covering an area of approximately 30,000 acres of timber, 17,000 acres of which was under government ownership. The State Forester declared the area a zone of infestation, and compulsory control measures were put into effect. Up to 1925 all control work was handled on the holdings of the Lake Arrowhead Company, comprising approximately 5,600 acres.

It is estimated that the annual loss of 1925 was approximately 600,000 FBM, and approximately 74% of this total was treated during the control season. The annual loss has greatly lessened, until for the season just closed we have an annual loss to show of approximately 30,000 FBM, this total being for both private and government land involved. Since 1925, approximately 216,000 FBM have been treated on government land at a cost of approximately \$2000, and approximately 100,000 FBM on private land at a cost of approximately \$5000.

The present condition of the area is very healthy, no sorrel-tops being in evidence; and where broods are found they are light and scattering, having been reduced in numbers to a point where they do not successfully concentrate to any degree.

It is planned to follow up the work of this spring by using the solar method of treating and contributed time of the protection force, as the infestation has reached a stage where it can be handled economically by this method. At the present rate of decrease, our annual loss under this method for next year should not be over 14,000 FBM.

F.W. Funke.

